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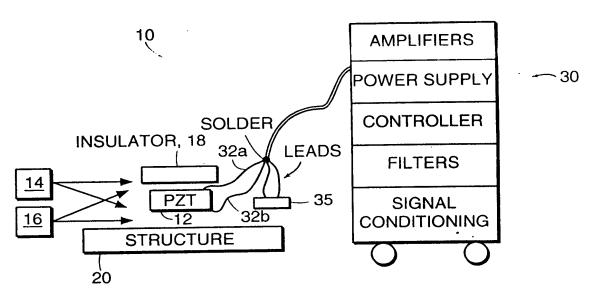
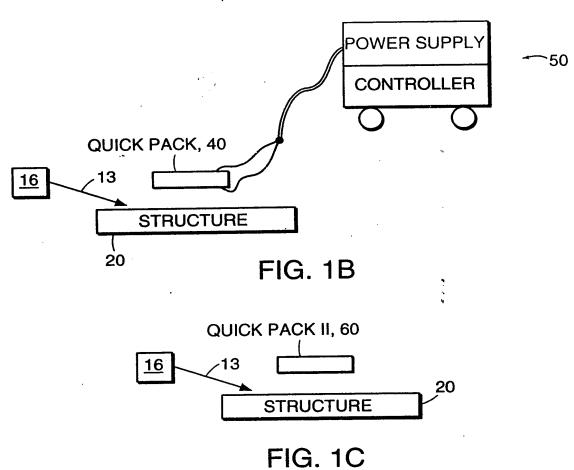


FIG. 1A (PRIOR ART)



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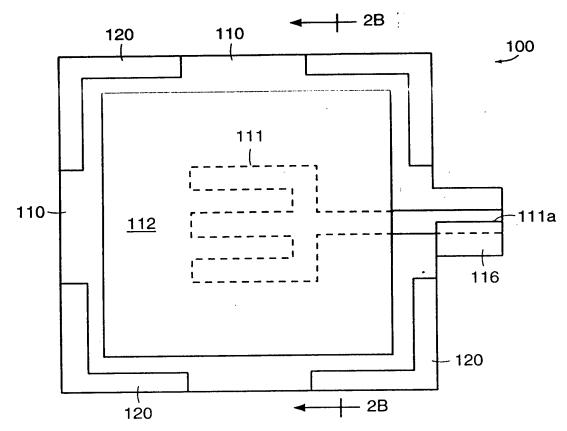


FIG. 2A

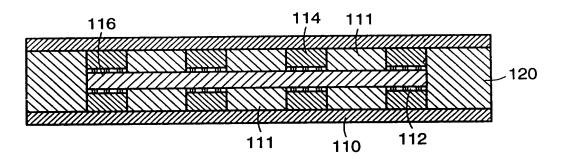
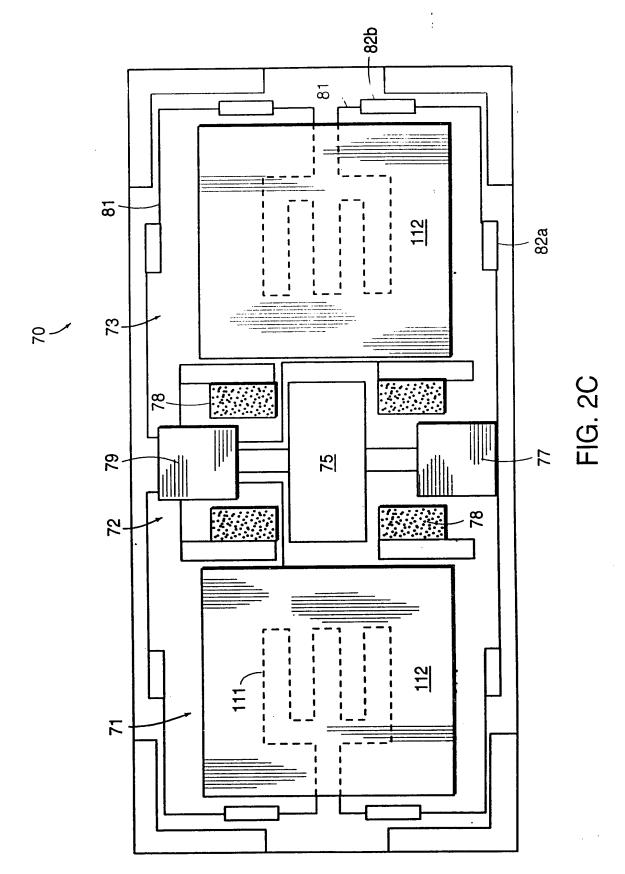
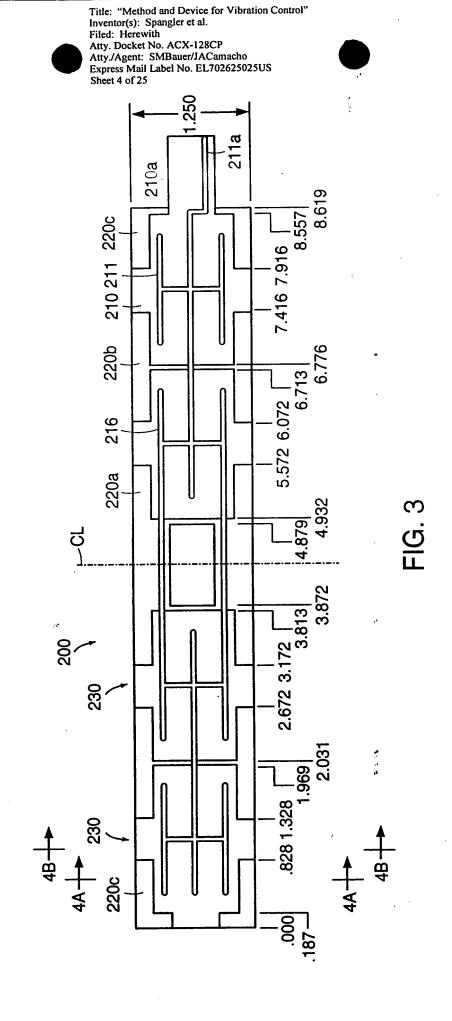
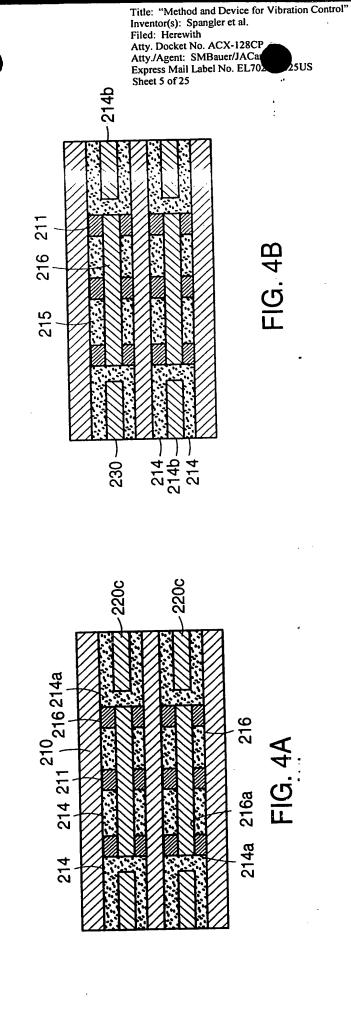


FIG. 2B

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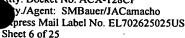


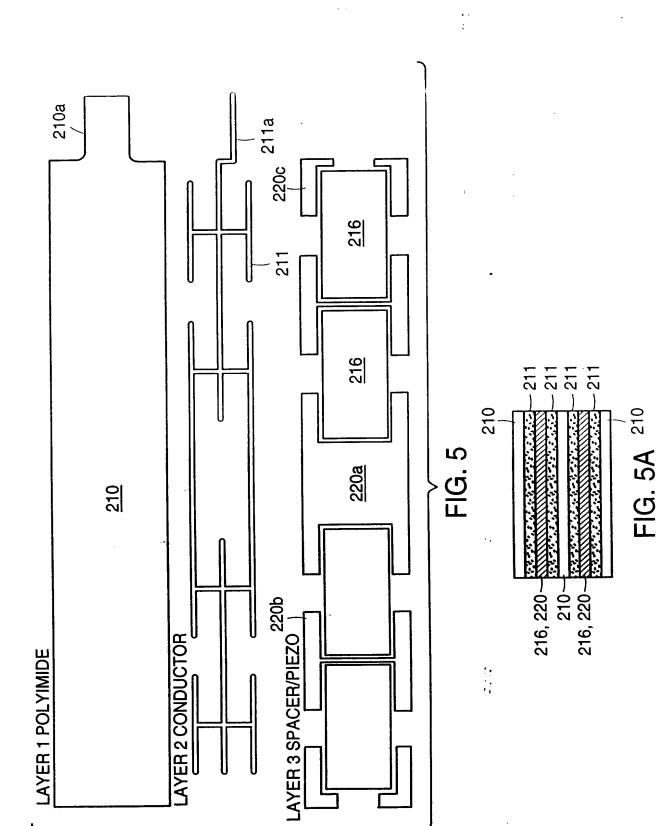




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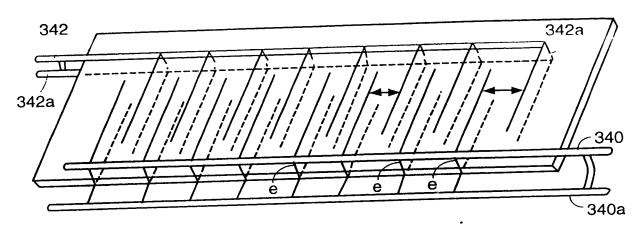


FIG. 6

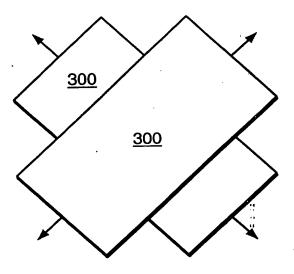


FIG. 7

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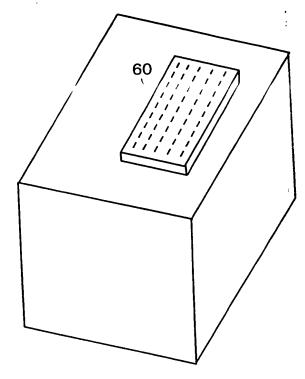


FIG. 8A

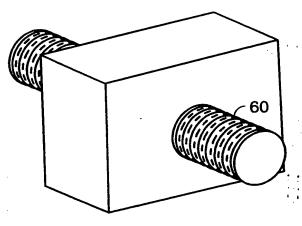


FIG. 8B

Title: "Method and Device for Vibration Control" Inventor(s): Spangler et al. Filed: Herewith Atty. Docket No. ACX-128CP
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ess Mail Label No. EL702625025US FIG. 9B FIG. 9A FIG. 9C FIG. 9D

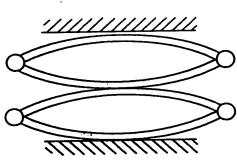


FIG. 9E

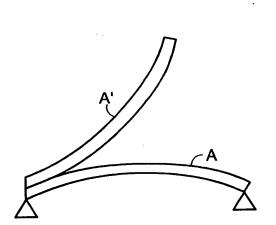


FIG. 9G

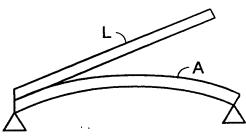


FIG. 9F

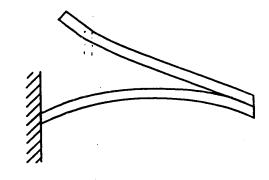


FIG. 9H

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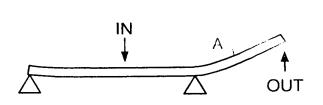
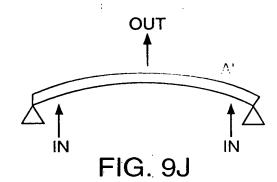


FIG. 91



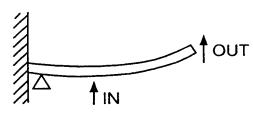


FIG. 9K

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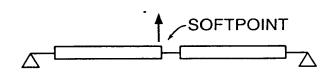


FIG. 9L

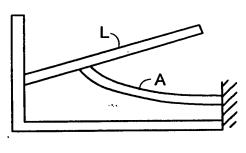


FIG. 9M

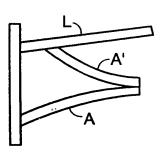


FIG. 9N

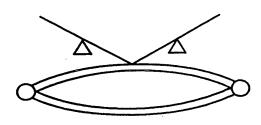
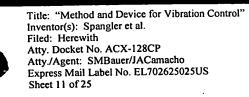
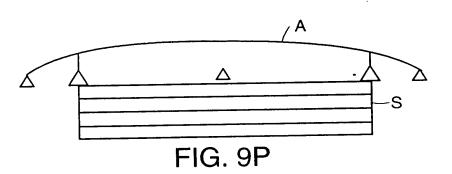
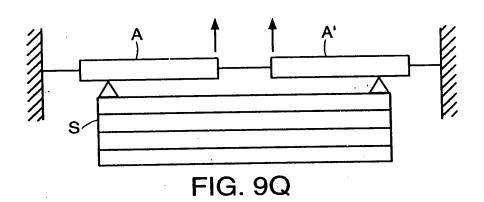


FIG. 90



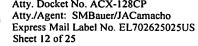




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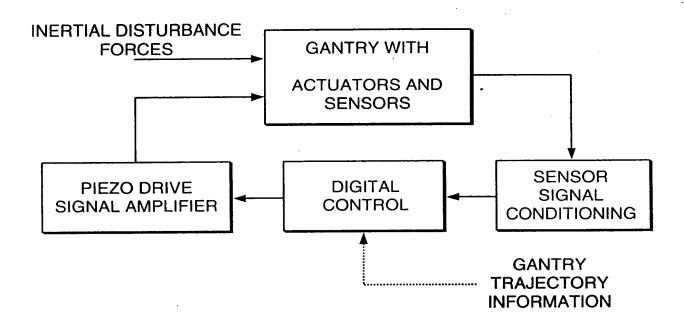


FIG. 10

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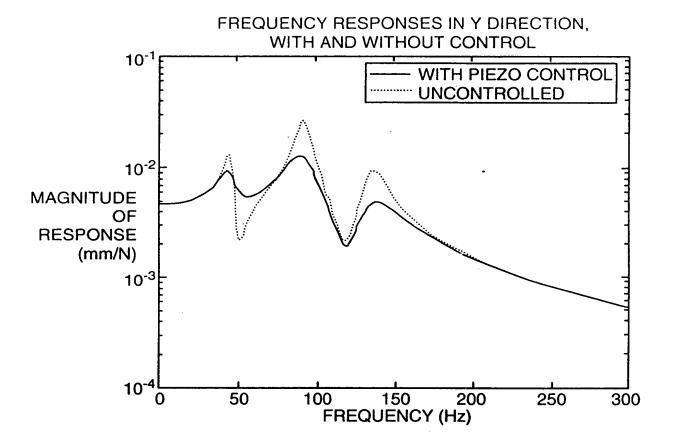


FIG. 11

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TIME RESPONSES IN Y DIRECTION, WITH AND WITHOUT CONTROL 0.25 WITH PIEZO CONTROL **UNCONTROLLED** 0.2 0.15 DIS-0.1 PLACE-**MENT** (mm) 0.05 0 -0.05 -0.1

0.1

0.05

0.15

0.2

FIG. 12

FREQUENCY (Hz)

0.25

0.35

0.4

0.45

0.5

0.3

Hang and the the last that the tast that गुण्या सूर्व्य, सुन्या सूर्यंत दुर्ग्या सा मृत्यो सूर्व्या सूर्या स्थल Title: "Method and Device for Vibration Control" Inventor(s): Spangler et al.

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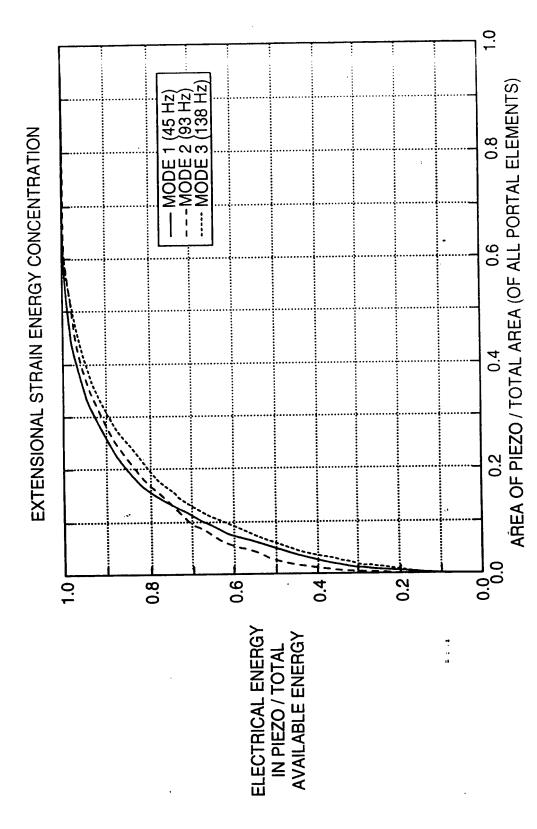
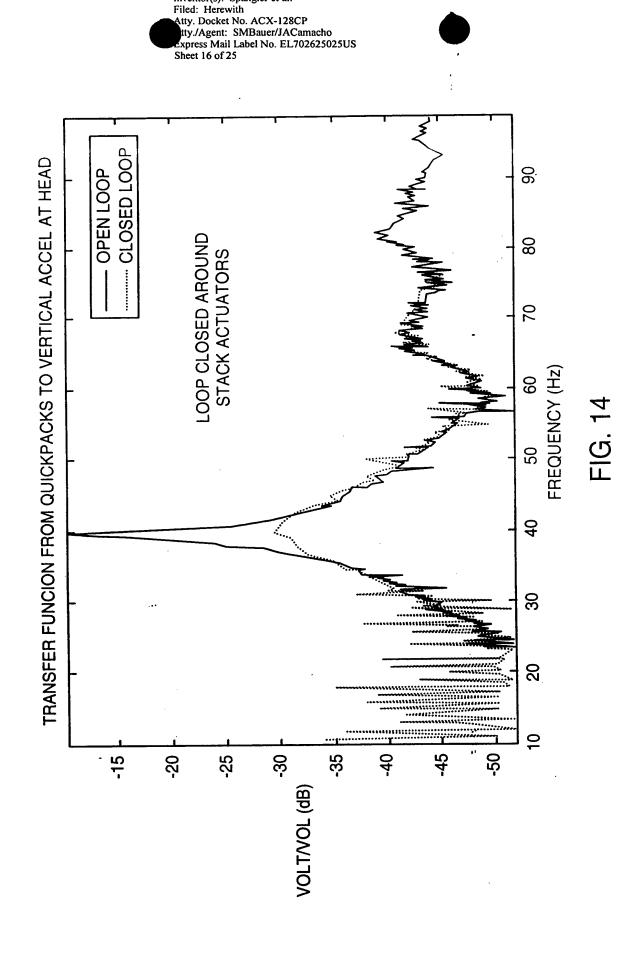


FIG. 13



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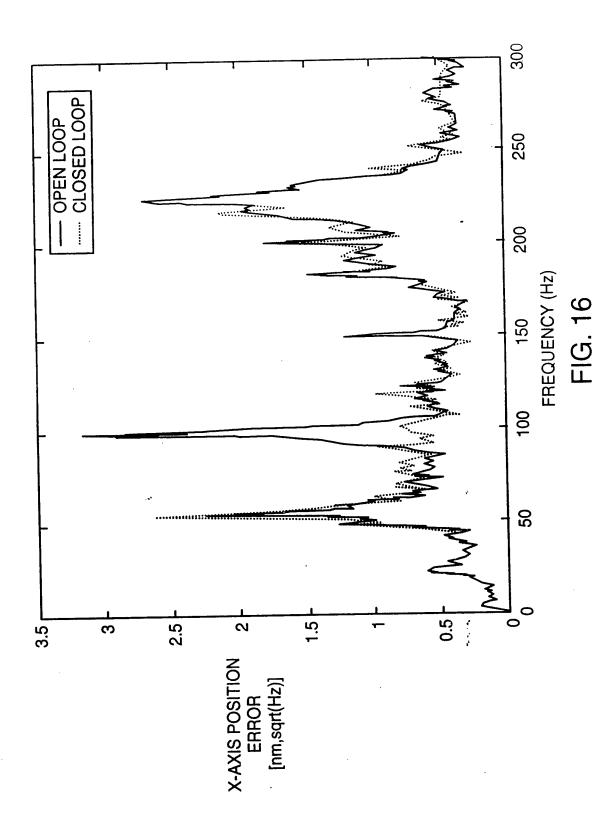
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TRANSFER FUNCTION FROM QUICKPACKS TO VERTICAL ACCEL AT HEAD **CLOSED LOOP** OPEN LOOP 8 8 HIGHER GAIN CONTROL 20 FREQUENCY (Hz) 9 20 6 ဓ္တ -30 |-VOLT/VOLT (dB) 20 -25 -15 -50 -35 4 -45

FIG. 15

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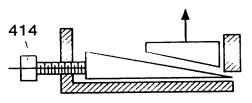


FIG. 17

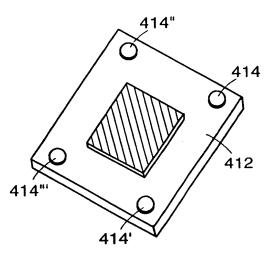


FIG. 18

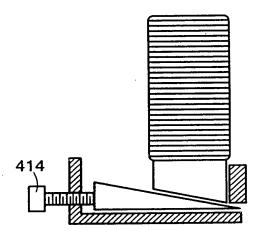


FIG. 19

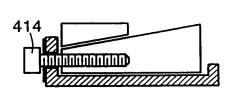
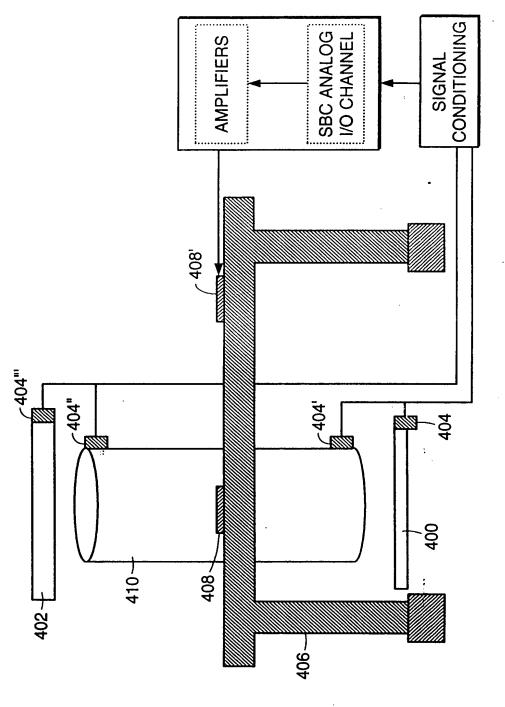


FIG. 20

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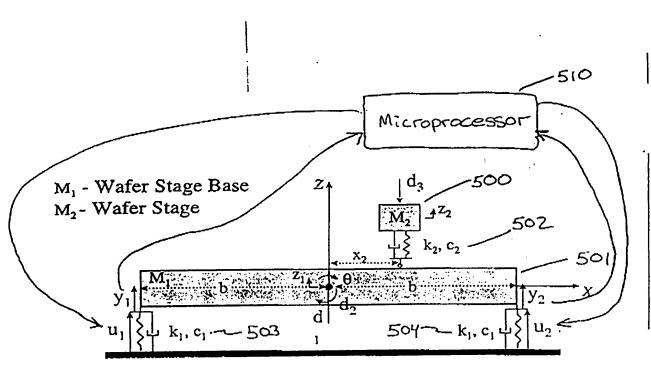
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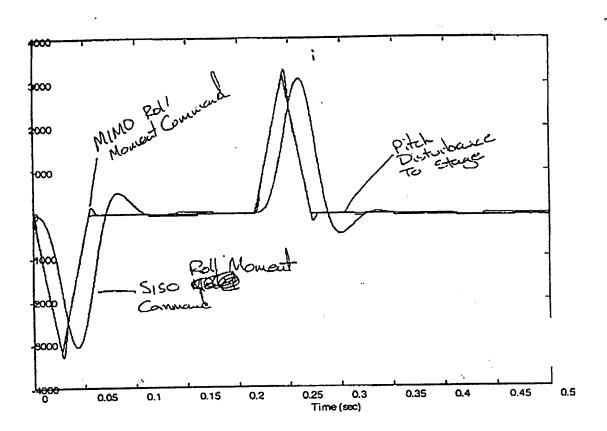
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- Inputs (ui): Voice Coil forces on base in Z
- · Outputs (yi): Laser displacement measurements collocated with voice coil inputs
- Disturbances (d<sub>i</sub>): Z-force and θ moment on base, Z force on stage

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.FIG. 23

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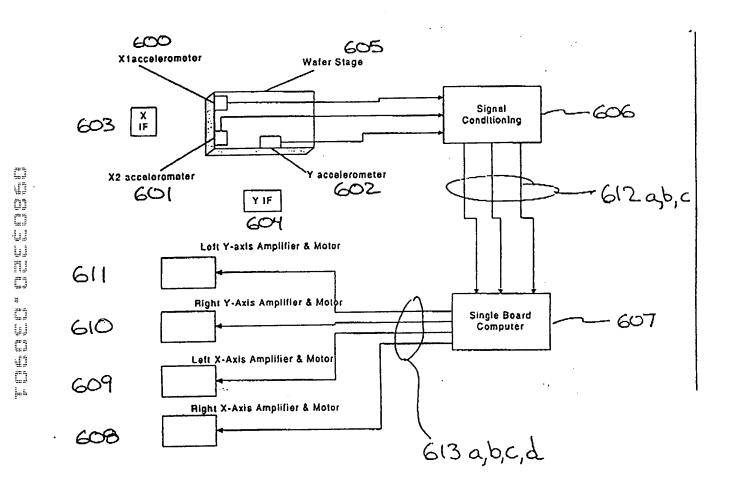


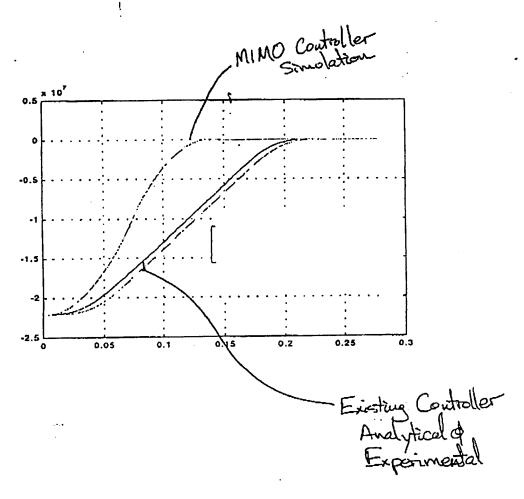
FIG. 24

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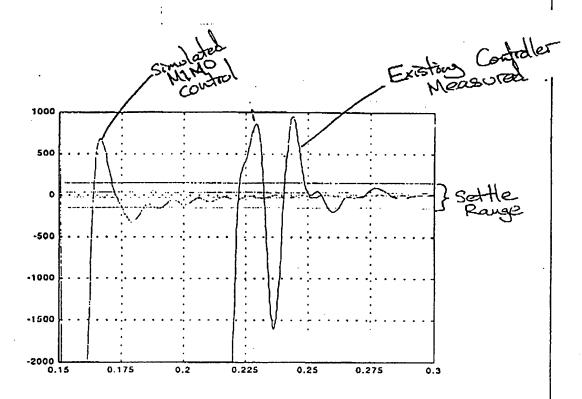


FIG. 26